



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



PUBLIC SERVICE EVENTS

Interested in helping? Visit <https://www.rars.org/public-service.php>

frequently for our 2019 ham public service schedule.

RARS General Meeting

Topic: Amateur Radio Direction Finding

By: Ruth Bromer, WB4QZG & Joseph Huberman, K5JGH

Date: May 14, 2019

Time: Meeting at 7:30PM

Informal gathering and refreshments from 7 - 7:30 p.m.

Where: Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

New HAM meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, New Ham Meeting Coordinator

[Click here for more information.](#)

Presidents Comments

By Carl Davis, W8WZ

As I write this we are between two of the biggest ham radio events of the year for RARS members, namely; RARSfest and Field Day. Therefore, let me begin my thanking everyone who made RARSfest 2019 a great success. I especially thank RARSfest chairperson Tara, W4TSW for her hard work and leadership. Tara can report on the specifics of RARSfest so I will just say it was a great success made possible by the efforts of many and did much to further the positive ham radio experience of all of us who attended or participated. It was great to have very strong ARRL presence in the form of our Director, Vice Director, Section Manager, Section Traffic Manager and an ARRL staffer from Newington. The hands on building opportuni-

[Continued on page 8](#)

RARS Officers

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the Saturday that is ten days before the general meeting. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: Second Tuesday of each month

Location: Ridge Road Baptist Church 2011
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The
meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

All members and guests are welcome to
the monthly (first Tuesday) RARS Supper,
6:30PM, at the Golden Corral Restaurant,
6129 Glenwood Ave., Raleigh. Informal and
Dutch, just bring your appetite and best rag to
chew. 73, Chuck, K4HF

RARS Repeaters in Raleigh

146.640 and 444.525

Join us for the nightly RARS net at 8 p.m.
on the 146.640 repeater. All hams holding a
Technician class license or higher are invited
to check in. We welcome both RARS and non-
RARS members to the net.

There is a net Listing on the RARS web-
site click here. <https://www.rars.org/nets.php>

VE Testing

The RARS VEs will accept walk-in testing in
February, May, August and December at
5:30PM, prior to RARS membership meetings
at Ridge Road Baptist Church; the RARSfest
in April; the Cary Swapfest in July; the JARS-
Fest in November; and following RARS license
classes. Please bring a photo ID, your origi-
nal and a copy of your current license, your
\$14 exam fee, and any valid CSCEs that prove
passing elements beyond that of your current
license. Visit <https://www.rars.org> for more in-
formation.

April 2019

RARS Net Monthly Summary

Two meter nets

Checkins: 551

Traffic Brought/Passed: 15/14

Minutes: 1234

Sessions: 30

Special 10 Meter Net

Checkins: 15

Minutes: 59

Sessions: 1

Virginia Enzor NC4VA

RARS Net Manager

Future Hamfests

A full list of Hamfests can be found at the
[ARRL website.](#)

05/11/2019

Rockingham County ARC Swapfest

Location: Reidsville, NC

Type: ARRL Hamfest

Sponsor: Rockingham County Amateur Radio
Club, inc

Website: <http://n4iv.org>

5/25/2019 45th, DurHamFest

Durham Public Schools Staff, Dev Center
2107 Hillandale Road, Durham, NC 27705

Coordinates - Lat: 36.0362 Long: -78.9365

Saturday, May 25, 2019

8:30 am – 12:30 pm

(Vendor Setup starts at 7:00 am)

President's Message continued

ties, fox hunt, forums, demonstrations, vendor booths, dealers and flea market areas were all well enjoyed. Good work!

Now on to Field Day! As you know the ARRL Field Day is always held on the 4th full weekend in June. That means that the 2019 ARRL Field Day is June 22-23 2019. RARS will hold Field Day at the farm of RARS Members Jim Carrol Carrol Farm in Apex, NC. 4501 Friendship Road Apex, NC. RARS Field Day Chair Bob, W4TTX has organized our band captains and each Band Captain has been working for months to get his/her station logistics worked out. This year each station will set up its own tent for operations and there will be a large communal tent set up for dining and fellowship.

Friday June 21st, beginning at 10:00 AM volunteers, leaders, and operators begin setting up. Duties will include antenna and feed line set up, and station set up for each of the bands and modes. Preliminary equipment testing will also be on the agenda. We will have a Friday evening dinner on site again this year around 6:00 PM as a reward for everyone's hard work.

On Saturday, June 22nd at 8:00 AM set up will resume for those that need a little more time to get everything ready. We will reassemble on Saturday around noon for final equipment checks and instructions.

Please plan to come out to Field Day. Operate if you would like, we will have many stations set up so you can operate the mode/band of your choice, or work at several different stations over the course of the weekend. We will also have a Get on The Air (GOTA) station set up for people who don't have much experience to learn at. Whatever your level of experience you are welcome at RARS Field Day. One of the highlights of the RARS Field Day is the traditional Saturday evening catered meal. So Saturday Afternoon/Evening is a great time to stop by so you can enjoy a wonderful meal with fellow hams. Contact RARS Field Day Chair Bob, W4TTX at rstarkenburg@nc.rr.com for more information.

73 Carl Davis, W8WZ



RARS April Membership Meeting



John Green, KX4P telling about restoring a Collins Radio KWM-1 transceiver.

KWM-1 transceiver front

KWM-1 transceiver inside the top.



RARS April Membership Meeting continued



RARS members listening to the presentation.

April Membership Meeting, Door Prize winners



Left to Right: John Green, KX4P; John Honeycutt, N8ZU; Kathleen Abbey, KM4CSF;
Nicholas Szydle, KA1HPM; Chuck Till, K4RGN

*New HAM meeting, 6:00 p.m. before the
member meeting*

Tadd Torborg, KA2DEW, New Ham meeting Coordinator

*The New Hams meeting is held every month before the regular RARS meeting.
We'll try to start by 6pm. We try to address topics in a manner that will be of help
to hams in their first year of operation.*



John, KG4AKV, talking about OSCAR satellites

In April at our 6pm New-Ham meeting before the RARS meeting, KG4AKV, John did a presentation on working satellites with FM and SSB transceivers. A couple of other people also brought in their satellite antennas.

At the next meeting we'll either be getting new hams on 40m SSB in front of the church, or if the weather is rough, we'll work on DC electrical wiring for ham-shacks.

73, Tadd Torborg, KA2DEW

2019 RARSfest - Vendor Welcome Dinner



Thanks to Chuck, W3WZN for sending these pictures to the Exciter.

Many vendors enjoyed the free dinner on Friday night.

2019 RARS Hamfest VE Test Session

The 2019 RARSfest VE test session was, as usual, a very busy one. We processed 47 individuals and administered a total of 72 exam elements. After the session, we had three new Extras, ten new Generals, and 23 new Technicians. We had one individual who came in as unlicensed and left having passed all three elements to become an Extra Class ham. Unfortunately, there were 11 who did not get what they tested for. Most of the people who attended were from North Carolina. Only four came from out of state - two from Virginia, one from Tennessee, and one from South Carolina.

Many thanks to our dedicated team for doing their usual outstanding job and getting everyone processed in a timely manner. We were not rushed to leave the room this year and had plenty of time to vacate prior to the scheduled forum. The team included: Rob Bergmueller (K3COD), Ed Best (AK4W), Fred Breidt (AG4WE), Charles Galloway (W4DBI), Lannie Godwin (KK4QLF), Chuck Hall (AE4CD), Ken Kucki (NE4Y), Julie Royster (KT4JR), Dennis Mason (WZ0Q), Lowell Sayles (K4EUP), Philip Snyder (NC4UK), Louis Voerman (W2RDW), and Stan White (KI4NC). It was gratifying to have such a large number of Volunteer Examiners willing to give their time to make the session flow smoothly. Special thanks to K3COD who just received his credentials and as his first session with the team worked this busy event. Others who had never worked RARSfest were W2RDW and KI4NC. Without the help of our entire team, we would never be able to give the number of exams we do in the time allotted. We couldn't ask for a better team and each and every one are very much appreciated.

We will next be giving exams at the May 14th club meeting.

73 de Joe (WA4GIR) and Liz (KO4CK) White
Co-Contact VEs

2019 RARSfest Prize Winners

9:00	Pre-registration	\$100	Clyde Long	AF4CI
10:00	Hourly	\$100	Craig Bensch	KC2DFS
11:00	Hourly	\$100	Robert Brown	
12:00	Hourly	\$100	Kit Yeung	
1:00	Hourly	\$100	Robert Clark	KJ4UX
2:00	Grand Prize	Radio	Ted Lawrence	KD4EG
	Fox Hunt	\$30	Gary Keough	K1IOQ

RARSfest pictures



Monthly RARS Dinner

Its held on the first Tuesday of each month at 6:30PM. RARS members, non-members, friends, and family - feel free to bring your little ones! It's usually at the Golden Corral on Glenwood Avenue.

During the April dinner Mark Kilmer, KM4JRH, held a mini contest. He asked who could identify the two items shown in the pictures below. He passed out slips of paper and we all guessed. Adrian Howell, KM4CSH got both of them correct.



1P40, Gas filled photocell.



5642, High vacuum rectifier, usable to 10KV

TV shown in Last Month's Exciter

The Hallicrafters TV shown in last month's Exciter has channel one. Channel one went away in 1948. In the USA, FM radio was assigned the 42 to 50 MHz band of the spectrum in 1940. On June 27, 1945 the FCC allocated one hundred FM channels from 88–108 MHz. By January 8, 1949, all the FM stations operating on 42 to 50 MHz were shut down. Officially making obsolete 395,000 receivers. This was a huge setback to FM broadcasting. David Sarnoff spearheaded this change. This reassignment, whose covert goal by RCA was to disrupt the successful FM network that Edwin Armstrong had established on the old band. The NTSB televisions that RCA helped develop uses FM in the audio. RCA did not pay royalties on FM to Armstrong. There was a long court case. Armstrong committed suicide in 1954. A year later his widow won the case.

Historic US FCC allocation of VHF band [\[edit \]](#)

Channel	1938–1940		1940–1946		1946–1948		since 1948	
	Lower edge	Upper edge	Lower edge	Upper edge	Lower edge	Upper edge	Lower edge	Upper edge
1	44	50	50	56	44	50		
2	50	56	60	66	54	60	54	60
3	66	72	66	72	60	66	60	66
4	78	84	78	84	66	72	66	72
5	84	90	84	90	76	82	76	82
6	96	102	96	102	82	88	82	88
7	102	108	102	108	174	180	174	180
8	156	162	162	168	180	186	180	186
9	162	168	180	186	186	192	186	192
10	180	186	186	192	192	198	192	198
11	186	192	204	210	198	204	198	204
12	204	210	210	216	204	210	204	210
13	210	216	230	236	210	216	210	216
14	234	240	236	242				
15	240	246	258	264				
16	258	264	264	270				
17	264	270	282	288				
18	282	288	288	294				
19	288	294						

Everyone is welcome!



11:30 AM every Thursday a group of Hams get together for Lunch at Taco Bell. The address is 7036 E Hwy 64 Knightdale, 27545. 1.2 miles east of I540.

Future RARS Meeting Topics

Titles, topics, and speakers subject to change.

5/14/2019	Amateur Radio Direction Finding with a demonstration on 2 and 80 meters	Ruth Bromer, WB4QZG, & Joseph Huberman, K5JGH
6/11/2019	Field Day	Bob Starkenburg, W4TTX
7/9/2019	80 foot tower installation with 40/30 Optibeam	Dave Wood, W4EJ
8/13/2019	What makes FT8 work?	Chuck Till, K4RGN
9/10/2019	Open Source Design Tools for Amateur Radio including KiCAD	Dan Marks, KW4TI
10/8/2019	RARS Officers nominations RARS Auction	Election committee & Carl, W8WZ

Interesting websites, information from various sources.

QCWA, Piedmont Chapter 126 is on page 14.

<http://qcwa.org/members/publications/2019-05.pdf>

Surplus parts

<https://skycraftsurplus.com/>

Hallicrafters information

<http://www.navy-radio.com/rcvr-ww2.htm>

Navy "E" award for wartime excellence here:

<https://en.wikipedia.org/wiki/Hallicrafters>

Inventor Samuel Morse is born, April 27, 1791

https://www.edn.com/electronics-blogs/edn-moments/4439297/Inventor-Samuel-Morse-is-born--April-27--1791?utm_source=newsletter&utm_campaign=ad&utm_medium=EDNFunFriday-20190426

CXDA

<https://www.cdxa.org/>

The "ARTICALS" and "PROJECTS" sections are particularly good in that they start with the basics, cover subjects well and yet do not over complicate things.

<http://www.learningaboutelectronics.com/>

Ham equipment online Auction. The auction is over. You can use the site to see how much the radios sold for.

<https://schulmanauktion.hibid.com/catalog/164807/ham-and-antique-radios--spring-2019/?>

ARRL 2018 DXCC Yearbook

<http://www.arrl.org/files/file/DXCC/DXCCYearbook/DXCC%20YEARBOOK%202018.pdf>

Here is another ham radio website with a lot of information.

<https://www.qrzcq.com>

Tektronix Museum

<https://www.rars.org>

<https://vintagetek.org/>

Mark Kilmer sent these two to the Exciter.

<http://indexa.org/>

[https://www.fws.gov/uploadedFiles/Region_1/NWRS/Zone_1/Pacific Reefs Complex/Baker island/Documents/hui%20panalaau.pdf](https://www.fws.gov/uploadedFiles/Region_1/NWRS/Zone_1/Pacific_Reefs_Complex/Baker_island/Documents/hui%20panalaau.pdf)

New digital Mode, FT4.

Dr. Taylor - FT8 & Beyond: FT4 - this mode is 3x Faster than FT8.

The FT4 part starts at 15 minutes in to this video.

<https://www.youtube.com/watch?v=2Pd7zB40xdY&feature=youtu.be&t=933>



Public Service

There are Public Service Events that you can help with each month.

Click on this link and you can see what ones are coming up.

www.rars.org/public-service.php

ARRL Public Service News.

<http://www.arrl.org/public-service>

<https://www.rars.org>

RARS Birthdays

Richard	K7RLH	05/01
George	N2GXC	05/01
Pete	K4BLY	05/03
Matt	NC4SU	05/03
Ron	KJ4DNS	05/04
Julie	KM4JEN	05/04
Jack	K3RDZ	05/04
Larry	KG4FIQ	05/05
Liz	KO4CK	05/05
John	K3RHJ	05/06
Hank	K4HM	05/08
Malcolm	KN4PJQ	05/08
Wayne	K6TWX	05/08
Tom	N4UAK	05/08
Nancy	KB1HIX	05/10
Brian	KA9QJT	05/10
Bob	NC1X	05/11
Chuck	AE4CD	05/12
David	KC4DFB	05/12
Anthony	KN4KBB	05/15
Wally	NC1NC	05/15
Cam	KU4VY	05/17
Chris	KE4TMO	05/17
Mike	KN4CUT	05/17
Frank	W4NPN	05/17
Bill	AK4BL	05/20
Larry	K1ZW	05/20
Joe	K4UOO	05/24
Tucker	KN4UFC	05/24
Neil	KM4JEL	05/31
Ken	KE4BRW	05/31

New RARS Members

David Edwards	KN4OBW
Lehnam Johnson III	N4WYE
Wilson Lamb	W4BOH
Donovan Rogers	KN4UFP
Ronnie Lee	KN4UFL
Jeff McCulloch	K4JEL
Jamie Wells, Jr	KN4UFU
Kelly Wells	KN4UFV
Tucker Foushee	KN4UFC
Mitch Mitchell	K8UR
Rickey Smith	KJ4AHN
Jeremy Fryett	KN4TID



RARS Classifieds

Copied from <https://www.rars.org/classifieds.php>

The items below were listed within the last 30 days on the RARS website.

Misc Working Ham Radio Items

Posted April 25th, 2019 by: K4HF

Contact: k4hf@arrl.net

1. KLM 70 Watt 440 MHz FM/SSB Amplifier VG - \$65
2. GC 10/100 Watt HF SWR/PWR Meter F - \$5
3. Midland WR-300 Weather Alert & AM/FM Radio New - \$15
4. Midland WR-120EZ Weather Alert Radio w/alarm New - \$10
5. Heath HD-1416A Code Practice Oscillator VG - \$10
6. EF Johnson HF Low Pass Filter VG - \$5
7. Dow Key Coax Antenna Relay, 120VAC VG - \$15
8. ICOM IC 735 160 thru 10 Meter 100 Watt HF Transceiver with matching PS 55 P. Supply. W/mike, manual, cord, Very good condx - \$375
9. ICOM IC 706 MarkII G, 160 thru 440 MHz w/mike manual, cord, very good condx - \$575

Contact me by e mail, preferred or (919) 872-6555 Thanks, Chuck



ICOM 735

Free Wrist Rocket Antenna Launcher

Posted April 25th, 2019 by: AE4MN

Contact: ae4mn@arrl.net

Like New. Free to a good home. Item was over looked when cleaning out shack for RARSfest.

Continued from the previous page

CS800 DMR Mobile

Posted April 23rd, 2019 by: N1GMV

Contact: n1gmv@hotmail.com

Selling a CS800 FM/DMR UHF mobile already programmed for this area.

\$150 obo contact: n1gmv@hotmail.com

(2) CS580 DMR handhelds for sale

Posted April 23rd, 2019 by: N1GMV

Contact: n1gmv@hotmail.com

Selling two CS560 Hand held UHF FM/DMR radios. These are in like new condition with very little use. They are already programmed for both the DMR and FM repeaters in this area. Just add your ID and your good to go. am including manuals, programming cable, boxes etc.

I would like to get \$80 each

Best way to reach me is via email n1gmv@hotmail.com

73 John

Hustler 4BTV Trap Vertical Antenna with 17m and 30m add-on kits installed (six band) for sale - \$250 or best offer

Posted April 19th, 2019 by: KJ4WD

Contact: cjponto@bellsouth.net

This is a self-supporting vertical that gives operation in the 10, 15, 17, 20, 30 and 40 meter bands. This antenna was designed to perform well in restricted space areas.

Accessories include:

- stainless steel tilt base mounting plate,
 - stainless steel radial plate,
 - vertical feedline current choke,
 - and all mounting hardware removed from original installation except for the radials and the ground mounted post that supported the antenna (I couldn't get it out of the ground hi).
-

Heathkit SB-220 HF Amplifier for Sale - \$450 or Best Offer

Posted April 19th, 2019 by: KJ4WD

Contact: cjponto@bellsouth.net

Continued from the previous page

Chassis is very clean. Non-smoker. This amp is wired for 230VAC but can be easily changed back to 115VAC. Photos available on request.

The following mods have been installed:

Soft-Key Interface

Replacement filter capacitor block

Replacement rectifier metering board

Soft-Start module (inrush current limiter)

These updates were all obtained from Harbach Electronics and can be seen at harbachelectronics.com.

The Plate Meter is intermittent. This is a common problem for this amp. New plate meters can be obtained but I found it sufficient to use the Grid MA/Relative Power Meter when tuning.

The amp loads up FB on all bands except ten meters.

Hallicrafters S 38E receiver

Posted May 6th, 2019 by: N4TL

Contact: n4tl2@yahoo.com

Hallicrafters S-38E receiver. Recapped and working. Asking \$35.



Heathkit GC-1A Mohican transistor radio

Posted May 6th, 2019 by: N4TL

Contact: n4tl2@yahoo.com

<https://people.ohio.edu/postr/bapix/hMohican.htm>

For sale a working GC-1A radio. It is missing the antenna and the battery box on the back. I added a Anderson Power pole DC connector so it can be powered from a DC source. Included is a 12 volt battery that was removed from a UPS. The on off switch in the volume control is not working so I added an on off switch on the battery wire. I painted the green cabinet and the radio looks a plays well. Asking \$40.



<https://www.rars.org>

Minutes

Raleigh Amateur Radio Society

Board Members Meeting

They will be published in a future issue of the Exciter.

Minutes

Raleigh Amateur Radio Society

Members Meeting

Date | time 04/09/2019 @ 7:30pm | *Meeting called to order by* Carl Davis (W8WZ)

In Attendance

The monthly membership meeting of the Raleigh Amateur Radio Society met at the Ridge Road Baptist Church in Raleigh. The meeting was called to order by President Carl Davis (W8WZ), at 7:30 pm.

The pledge of Allegiance was recited

There were 44 Members and 2 Visitors

Approval of Minutes

A quorum being present, a motion to accept the minutes of the March 12, 2019 meeting, as published in the Exciter, was made, seconded, and approved.

Continuing Announcements

The RARS dinner takes place monthly on the first Tuesday (next: May 7th) at 6:30p.m. at the Golden Corral; 6129 Glenwood Ave, Raleigh.

Minutes continued from the previous page

The next board meeting, which is open to all our members, will be Tuesday April 16th at 7pm in the church conference room.

Tonight's after-meeting gathering, for any who are interested, will be at the Rudinos at 3101 Edwards Mill Rd, Raleigh.

A new ham/Elmer's meeting with new hams, and anyone interested, takes place before each membership meeting at 6pm at the Ridge Road church and presented by Tadd (KA2DEW)

Prior to this meeting they had a satellite demo by John Brier (KG4AKV) and that next months' class topic is pending.

Door Prizes

There were 5 winners in our door prize drawing.

John Green (KX4P), Nicholas Szydle (KA1HPM), Charles Till (K4RGN), John Honeycutt (N8ZU), Kathleen Abbey (KM4CSF)

Congratulations to our April Winners; you can find their picture on our Facebook page

Vice President Report/Exciter Chair-Tom N4TL

Tom reported that the presentation for May will be "Amateur Radio Direction Finding with a demonstration on 2 and 80m" with Ruth Bromer (WB4QZG) & Joseph Huberman (K5JGH)

He also mentioned that he hoped the club enjoyed the last issue of The Exciter and thanked the members for their submissions.

Treasurer's Report-Greg KE4PAX

Greg was not present; no report.

For those interested in official Treasurer report can contact Greg (KE4PAX)

Secretary's Report-Tara W4TSW

Present but No Report

Board and Committee Reports

RARSfest Chair-Tara W4TSW – Tara reminded the club that RARSfest would be in less than two weeks and there are still many volunteer spots still open and also mentioned that Chuck (K4HF) is selling tickets after the meeting.

Joanne (AA3N) reminded the club that the Welcome dinner is planned for the night before at 7pm and that volunteers are still needed along with side dishes and desserts.

Tom (N4TL) stressed the importance of pre registering consignment items so he can set up, track, and pay out quickly and correctly on the day of the event.

Education Director-Carl W8WZ Carl (W8WZ) announced that the education team is actively looking for a new place to host their fall and spring classes and asked the membership to let them know if anything they are aware of is available.

Board and Committee with No Report

Public Service - John K3RHJ

Food Service - Richard N1FUA

ARRL Liaison - Chuck K4HF

Youth Director - Murray K4MHM

Past President - Dennis NC4DK

ARRL Section Manager - Karl W4CHX

Webmaster - Hank K4HM

W4DW/W4RNC Trustee - Jeff AC4ZO

Director at Large - Alan AB4OZ

Director at Large - Joanne AA3N

Net Manager - Virginia NC4VA

Minutes continued from the previous page

FM Repeater Chair – Chuck W3WZN

Public Information Officer – Tara W4TSW

NCQSO Party Chair - Marty W4MY

Field Day Chair - Bob W4TTX

Old Business

New Business

Additional Business/Comments/Announcements

Alan (AB4OZ) announced that he would have a 10 meter net at 9pm on Saturday the 13th, following the tech net 28.364, for those wanting to test equipment. He would start by beaming west then work his way around to catch as many check-ins as possible.

Carl (W8WZ) reminded the club that we like providing the snacks but to continue please donate a couple of dollars.

Next Meeting

05/14/2019, 2011 Ridge Road at 7pm

Meeting was adjourned at 8:32 pm

Meeting Minutes taken and Submitted by Tara Goodwin W4TSW